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Application No.	Applicant(s)
09/998,922	FOULGER ET AL.
Examiner	Art Unit
Timothy J. Kugel	1712

A1 - 4! P A 11 1 1 1114	09/998,922 FOULGE		RETAL.	
Notice of Allowability	Examiner	Art Unit		
	Timothy J. Kugel	1712		
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not incl nunication will be mailed in d	uded ue course. THIS	
1. This communication is responsive to <u>amendment filed 30 N</u>	lovember 2004.			
2. The allowed claim(s) is/are <u>1-34</u> .			•	
3. \boxtimes The drawings filed on <u>30 November 2001</u> are accepted by	the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application been received been received this communication to file	on No ed in this national stage appl		
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			r NOTICE OF	
 6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposi	on's Patent Drawing Revie Amendment / Comment o 84(c)) should be written on the header according to 37 Cl sit of BIOLOGICAL MAT	or in the Office action of the drawings in the front (not FR 1.121(d). ERIAL must be submitted		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 8), 7. ☑ Examiner's	nformal Patent Application (F Summary (PTO-413), /Mail Date : s Amendment/Comment s Statement of Reasons for A	,	

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DETAILED ACTION

1. Claims 1-32 are pending as amended 17 November 2004

Specification

2. Applicant's amendments to the specification have been entered. The examiner withdraws the objections to the specification noted in the prior Office action dated 24 August 2004.

Response to Arguments

3. Applicant's arguments with respect to claims 1-6, 8-15, 17-22 and 24-27 have been considered but are most in view of the amended claims.

Claim Rejections - 35 USC § 103

4. Applicant's amendments to the claim 1-12, 19, and 28-34 see pages 3-7, filed 17 November 2004, have been entered. Said amendments have been fully considered and render the claims novel to the prior art. The rejections under 35 USC § 103(a) of claims 1-6, 8-15, 17-22 and 24-27 have been withdrawn.

Allowable Subject Matter

- 5. Claims 1-32 are allowed.
- 6. The following is an examiner's statement of reasons for allowance: U.S. Patent 6,097,530 (Asher et al. '530) and U.S. Patent 6,123,861 (Santini et al.) are the closest prior art. Asher et al '530 teach a composition and optical device comprising a crystalline colloidal array comprising ordered electrostatically stabilized polystyrene colloidal particles (Column 1 Lines 15-49) a polymer matrix encapsulating said colloidal particles (Column 10 Lines 11-23), including a crosslinking agent (Column 6 Lines 25-

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34), that exhibits a visible photonic bandgap that is capable of shifting upon environmental stimulation—specifically a change in temperature (Column 1 Lines 15-28). Santini et al. discloses the use of polyethyleneglycol like materials—including copolymers with methacrylate functionality—to ensure biological compatibility (Column 5 Lines 49-63). Neither Neither Asher et al. 530 nor Santini et al. teach a polyethyleneglycol matrix polymer polymerized among the ordered particles of the crystalline colloidal array, nor do they teach a polyethylene glycol matrix polymer with an R3 selected from the group consisting of proteins, nucleotides and antibodies. Both Asher et al. 530 and Santini et al. are silent as to the molecular weight of the polyethyleneglycol matrix.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Kugel whose telephone number is (571) 272-1460. The examiner can normally be reached on 7:00 AM 4:00 PM Monday Friday.
- 9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RANDY GÜLAKOWSKI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700